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## NOTICE OF ALLOWANCE AND FEE(S) DUE

21091

03/17/2004

JOHN H CROZIER 1934 HUNTINGTON TURNPIKE TRUMBULL, CT 06611

7590

EXAMINER
JONES, JUDSON

,

PAPER NUMBER

ART UNIT

DATE MAILED: 03/17/2004

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/783.179	02/12/2001	Robert Pulford JR.	226-133	6009

TITLE OF INVENTION: LINEAR STEPPER MOTOR AND FIXTURE FOR THE MAGNETIZATION OF THE SHAFT THEREOF AND METHODS

APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	YES	\$665	\$300	\$965	06/17/2004

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. <u>PROSECUTION ON THE MERITS IS CLOSED</u>. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

#### HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status is changed, pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above and notify the United States Patent and Trademark Office of the change in status, or

If the SMALL ENTITY is shown as NO:

- A. Pay TOTAL FEE(S) DUE shown above, or
- B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check the box below and enclose the PUBLICATION FEE and 1/2 the ISSUE FEE shown above.
- ☐ Applicant claims SMALL ENTITY status. See 37 CFR 1.27.
- II. PART B FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B Fee(s) Transmittal should be completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B Fee(s) Transmittal should be completed and an extra copy of the form should be submitted.
- III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

### PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail

Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450 (703) 746-4000

			or <u>Fax</u>	(703) 746-4000		
INSTRUCTIONS: This for appropriate. All further con indicated unless corrected be maintenance fee notification	below or directed otherwise i	mitting the ISSU atent, advance or n Block 1, by (a	IE FEE and PUBI ders and notification specifying a new	CATION FEE (if reg on of maintenance fees correspondence addres	uired). Blocks I through 4 s will be mailed to the current s; and/or (b) indicating a sep	should be completed where correspondence address as arate "FEE ADDRESS" for
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JOHN H CROZII	ER			C	ertificate of Mailing or Tran	smission
1934 HUNTINGTO TRUMBULL, CT	ON TURNPIKE			addressed to the M	this Fee(s) Transmittal is beir with sufficient postage for fi ail Stop ISSUE FEE address	s above, or being facsimile
				transmitted to the US	SPTO, on the date indicated be	(Depositor's name)
						(Signature)
						(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INV	ENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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JONES, J		2834		310-012000	_	
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Number is required.	or more recent) attached. Use	of a Customer	will be printed.		, <u>, , , , , , , , , , , , , , , , , , </u>	
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PLEASE NOTE: Unless been previously submitted (A) NAME OF ASSIGNI	d to the USPTO or is being su	ibmitted under se	parate cover. Comp	the patent. Inclusion of oletion of this form is NO CITY and STATE OR CO	assignee data is only appropri OT a substitute for filing an ass OUNTRY)	iate when an assignment has signment.
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This collection of informa	tion is required by 37 CFR by the public which is to file y is governed by 35 U.S.C. 12	1.311. The inform	nation is required	to		
application. Confidentiality	y is governed by 35 U.S.C. 12	2 and 37 CFR 1.	14. This collection	is		
completed application for	tes to complete, including gat m to the USPTO. Time will	vary depending	upon the individu	al		
case. Any comments on suggestions for reducing t	m to the USPTO. Time will the amount of time you re his burden, should be sent to	quire to comple the Chief Infor	mation Officer, U.	or S.		
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# UNITED STATES PATENT AND TRADEMARK OFFICE

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1934 HUNTINGTON TURNPIKE TRUMBULL, CT 06611			ART UNIT	PAPER NUMBER		
			2834			
				DATE MAILED: 03/17/200-	4	

# Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 120 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 120 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) system (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (703) 305-1383. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.

•	Application No.	Applicant(s)				
Notice of Allowability	09/783,179 Examiner	PULFORD, ROBERT Art Unit				
, , , , , , , , , , , , , , , , , , ,	Laminer					
	Judson H. Jones	2834				
The MAILING DATE of this communication appear All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this apport or other appropriate communication (GHTS. This application is subject to	plication. If not included  will be mailed in due course. THIS				
1. This communication is responsive to the amendment filed in	<u>2/9/2004</u> .					
2. The allowed claim(s) is/are 23,24 and 26-42.						
3. The drawings filed on are accepted by the Examine	r.					
<ul> <li>4. ☐ Acknowledgment is made of a claim for foreign priority una) ☐ All b) ☐ Some* c) ☐ None of the:</li> <li>1. ☐ Certified copies of the priority documents have</li> <li>2. ☐ Certified copies of the priority documents have</li> <li>3. ☐ Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)).</li> <li>* Certified copies not received:</li> </ul>	been received. been received in Application No					
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	of this communication to file a reply ENT of this application.	complying with the requirements				
5. A SUBSTITUTE OATH OR DECLARATION must be subministration (PTO-152) which give	itted. Note the attached EXAMINER es reason(s) why the oath or declara	'S AMENDMENT or NOTICE OF tion is deficient.				
6. CORRECTED DRAWINGS (as "replacement sheets") mus	et be submitted.					
(a) 🔲 including changes required by the Notice of Draftspers		948) attached				
1) 🗌 hereto or 2) 📗 to Paper No./Mail Date						
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date						
Identifying indicia such as the application number (see 37 CFR 1. each sheet. Replacement sheet(s) should be labeled as such in the	.84(c)) should be written on the drawir he header according to 37 CFR 1.121(c	ngs in the front (not the back) of d).				
7. DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT I	sit of BIOLOGICAL MATERIAL n FOR THE DEPOSIT OF BIOLOGICA	nust be submitted. Note the AL MATERIAL.				
Attachment(s)  1. ☑ Notice of References Cited (PTO-892)  2. ☑ Notice of Draftperson's Patent Drawing Review (PTO-948)	<ol> <li>5. ☐ Notice of Informal P</li> <li>6. ☐ Interview Summary</li> </ol>	ratent Application (PTO-152)				
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/0	Paper No./Mail Dat	te				
Paper No./Mail Date	<i>"</i>					
<ol> <li>Examiner's Comment Regarding Requirement for Deposit of Biological Material</li> </ol>	8. ⊠ Examiner's Stateme 9. ☐ Other	ent of Reasons for Allowance				
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### **DETAILED ACTION**

### **EXAMINER'S AMENDMENT**

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with John Crozier on 10 March 2004.

The application has been amended as follows: Cancel claims 17-22.

### Allowable Subject Matter

Claims 23, 24 and 26-42 are allowed.

The following is an examiner's statement of reasons for allowance: the prior art of record does not disclose or teach a linear stepping motor having a stator structure including annular disks of a high lubricity material spacing apart elements of the stator structure and serving as bearing surfaces in combination with the other features of claims 23 and 24.

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Feucht 3,620,133 A discloses annular disks of a high lubricity material (i.e., Teflon) used as a bearing material with metallic disks interspersed between the high lubricity disks for the purpose of dissipating heat from the high lubricity disks. While utilizing such disks in a prior art shaft type linear motor would produce a device similar to the claimed invention, no motivation has been found for making such a combination.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Judson H. Jones whose telephone number is 571-272-2025. The examiner can normally be reached on 8-4:30 M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Darren Schuberg can be reached on 571-272-2044. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

JHJ 3/10/2004